## BAT for FGD Wastewater at Merrimack Station





**Deliberative Process, Attorney Client** 

## How the Wet Flue Gas Desulfurization Technology Works Water Vapor Cleaned Fans **Emissions** Merrimack Station **Boilers** Hot Gases Wet Scrubber Unit Water To Wastewater Crushed Limostone Treatment Plant Slavy Sent to Sprays Suite Diesell to be Recursived (MILE) is allegen y (19) Subthent Ó Water Gypsum Solids are Filtered Out **Gypsum Recycled** Limestone and Water Mix Absorber Turns and Create "Limestone Sturry"

Slurry Into Gypsum

March, 2010 Clean Air Project presentation to PUC

## The Facility

470 MW coal-fired plant in Bow, NH owned by PSNH. Began in 1960.

**Deliberative Process, Attorney Client** 















Jacobs Consultancy Report to the PUC, EFFLUENT FROM FGD SYSTEM September, 2012 PRIMARY WASTE WATER TREATMENT SYSTEM RECYCLE TO FGD SYSTEM SOLIDS TO DISPOSAL SECONDARY WASTE WATER TREATMENT POLISHING STEP (ENHANCED MERCURY SYSTEM - PHASE 1 AND ARSENIC REMOVAL SYSTEM) (CONCENTRATION, CRYSTALLIZATION) TO RECYCLE WITHIN PLANT FOR BENEFICIAL REUSE SECONDARY WASTE WATER TREATMENT SYSTEM - PHASE 2 TO RECYCLE WITHIN PLANT FOR BENEFICIAL REUSE SOLIDS TO DISPOSAL (CRYSTALLIZATION,

DEWATERING)

Figure 9 - Wastewater Treatment Systems



